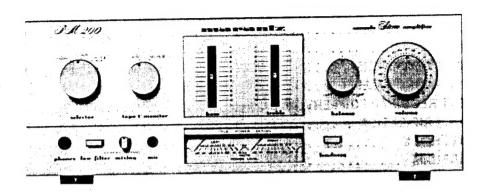


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1. INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for the Marantz PM 200 Stereo Console Amplifier. Servicing information and voltage data included in this manual are intended for use by knowledgeable and experienced personnel only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of circuitry operation.

The parts list furnishes complete ordering information. Most replacement parts should be ordered from the Marantz Company. However, a simple description is included for parts which can be obtained locally.

2. PRE-AMPLIFIER

Signals from the TUNER and AUX terminals are taken to the SELECTOR SWITCH (SV01).

Signals from the PHONO terminals pass through the phono amplifier (Q401, Q403) where they are amplified by 36dB and at the same time undergo RIAA equalization, before going to the SELECTOR SWITCH (SV01). After being selected by the SELECTOR SWITCH, the incoming signals are taken to the TAPE MONITOR switch and TAPE OUT terminals.

Signals which enter from the TAPE IN terminals are taken to the TAPE MONITOR SWITCH.

Signals which are selected by the TAPE MONITOR SWITCH are taken to the MONO SWITCH BALANCE and VOLUNE potentiometers, and then enter the preamplifier (QE01 and QE03). The preamplifier has a gain of 19dB and also serves as a tone control amplifier, with the frequency response being controlled by the BASS and TREBLE controls.

After passing through the preamplifier, the signals enter the main amplifier.

3. TROUBLESHOOTING ANALYSIS

- 1. Excessive line consumption
 - a. Check for shorted Q806 through Q809.
 - b. Check for shorted transistor Q715, through Q718.
 - c. Check for open Q709, Q710, R717, R718.
- 2. No line consumption or zero bias voltage
 - a. Check line cord, fuse, check for shorted Q709, Q710, Q717, Q718.
 - b. Check for open rectifiers Q806 through Q809 or open L001.
- 3. High hum and noise level
 - a. Check filter capacitors C808, C809, C801, C803, O801

4. POWER AMPLIFIER ADJUSTMENT

ADJUSTMENT OF IDLING CURRENT

Connect a DC voltmeter to between emitters Q715 and Q717. Adjust R717 until 11 mV is reached. Likewise, adjust Q716, Q718 and R718.

5. POWER METER ADJUSTMENT

Adjust the Speaker Terminal to @1 kHz at rated OUTPUT (12.6 V). Adjust the RX07 until the meter indicate 20 W. Adjust the RX08 for another channel.

6. TEST EQUIPMENT REQUIRED FOR SERVICING

Table 1 lists the test equipment required for servicing the PM 200 Stereo Console Amplifier. The wattmeter, AC voltmeter, and variable autotransformer may be assembled as a test fixture as shown schematically in Figure 1. The load resistors and AC ammeter may be assembled into a second test fixture as shown in Figure 2.

7. PERFORMANCE VERIFICATION

TEST PROCEDURE

A. TEST EQUIPMENT

Refer to Table 1 for required test equipment.

B. PRELIMINARY PROCEDURES

1. Make the test setup shown in Figure 1 with the instrument controls set in the following positions:

Line Switch Variable-line switch OFF Variable

Wattmeter Switch

ON

Variable Autotransformer Load

0 V (fully CCW) 8 ohms (0.5 mfd-OFF)

Audio Generator Output 1 kHz 5 V range Minimum

Gain AC Voltmeter

30 V range

- Make sure that connections between the resistive load and the system terminals of the PM 200 have negligible resistance when compared with the resistance of the load itself. Appreciable resistance in wiring adds to the total load, resulting in inaccurate measurements of output power.
- Connect amplifier output to load and connect AC cord to line power. Connect shorting plugs to the Phono input jacks of the PM 200.

Table 1. Test Equipment Required for Servicing

Item	Manufacturer and Model No.	Use	
Distortion Analyzer Audio Oscillator AC Voltmeter	Sound Technology Model 1700B	Distortion measurements Sinewave and squarewave signal source voltage measurements (AC)	
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment	
Circuit Tester		Trouble shooting	
DC Voltmeter	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)	
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier	
AC Ammeter Commercial Grade (1 ~ 10 A)		Monitors amplifier output under short circuit condition	
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier	
Variable Autotransformer	Superior Electronic Co., Powerstet Model 116B-10A	Adjusts level of primary power to amplifier	
Shorting Plug	Use phono plug with 600 ohm across center pin and shell	Shorts amplifier input to eliminate noise pickup	
Output Load (8 ohms, ±0.5% 100 W)	Commercial Grade	Provides 8-ohm load for amplifier output termination	
Output Load (4 ohms, ±0.5% 100 W)	Commercial Grade	Provides 4-ohm load for amplifier output termination	
Output Load Capacitor (0.5 mfd)	Mylar	Provides capacitive load for instability checks	
AC Power Control Box	Optional Item. Fabricate in accordance with Figure 1	Monitors and controls primary power for amplifier	
Amplifier Output Load Box	Optional Item. Fabricate in accordance with Figure 2	Provides various amplifier loads and can monitor shorted output	

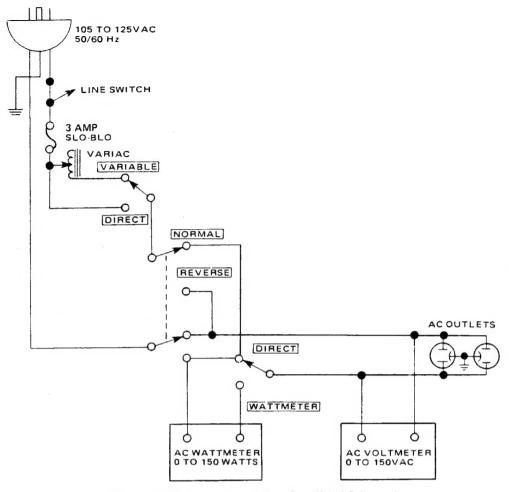
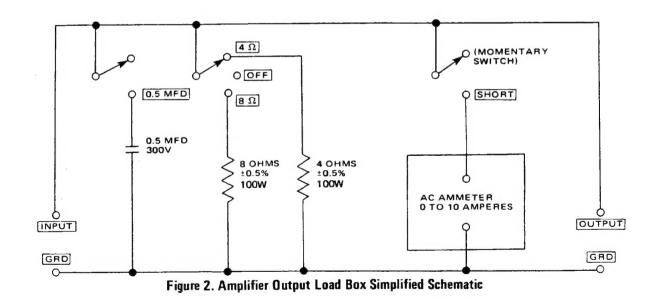


Figure 1. AC Power Control Box Simpligied Schematic



C. TOTAL HUM AND NOISE TEST

1. With shorting plugs connected to the Phono input jacks and an 8 ohm resistive load connected across the speaker system output terminals, connect a distortion analyzer across the load.

NOTE:

If the distortion analyzer does not contain a built-in, voltmeter, an AC VTVM may be substituted.

- Set the distortion analyzer controls for voltge measurements and apply power to the amplifier.
 Set the volume control fully CCW. Set the SELECTOR switch to PHONO.
- If the distortion analyzer indicates more than 2.0 mV refer to the trouble analysis section of this manual.
- 4. Set the volume control fully CW. If the distortion analyzer indicates more than 20 mV, refer to the trouble analysis section of this manual.

D. MAXIMUM POWER OUTPUT

- Connect the audio oscillator to the AUX input. Set audio oscillator frequency to 1 kHz. Set SELECTOR switch to AUX.
- With the distortion analyzer connected across the output load (8-ohm), set the analyzer on the 30 VAC scale.
- Turn the analyzer on and increase the audio oscillator output to 150 mV. The AC VTVM should read 12.6 VAC or more.

E. HARMONIC DISTORTION TEST

- Set the frequency of the audio oscillator and the distortion analyzer to 20 kHz.
- Set the controls of the analyzer for voltage measurement on the 30 volt scale.
- 3. Adjust the audio oscillator output level until the analyzer meter indicates 12.6-VAC.
- 4. Switch the distortion analyzer to Set Level and adjust SENSITIVITY for full scale reading on 0 \sim 1% scale.
- 5. Measure the total harmonic distortion with the analyzer and verify it is less than 0.3%.

NOTE:

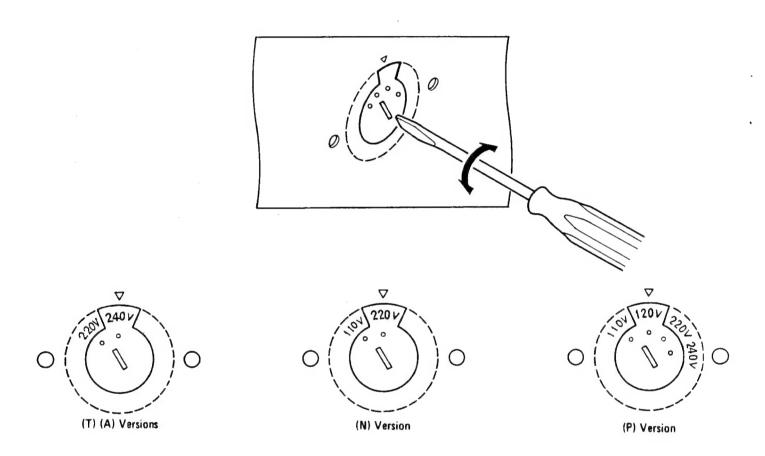
Any parasitic oscillation in the amplifier will be displayed on the oscilloscope when capacitance is switched into the load.

- Switch the distortion analyzer back to SET LEVEL. (Do not readjust sensitivity of analyzer.)
- 7. Change the frequency of the audio oscillator and distortion analyzer to 1 kHz. Adjust audio oscillator output for a full scale reading on the 0 \sim 1% scale.
- Measure the distortion, verifying it is no greater than 0.3%.
- Repeat steps 7 and 8, changing frequency to 20 Hz.
 Distortion should be no more than 0.3%.
- 10. Check for parasitic oscillation; there should be none.

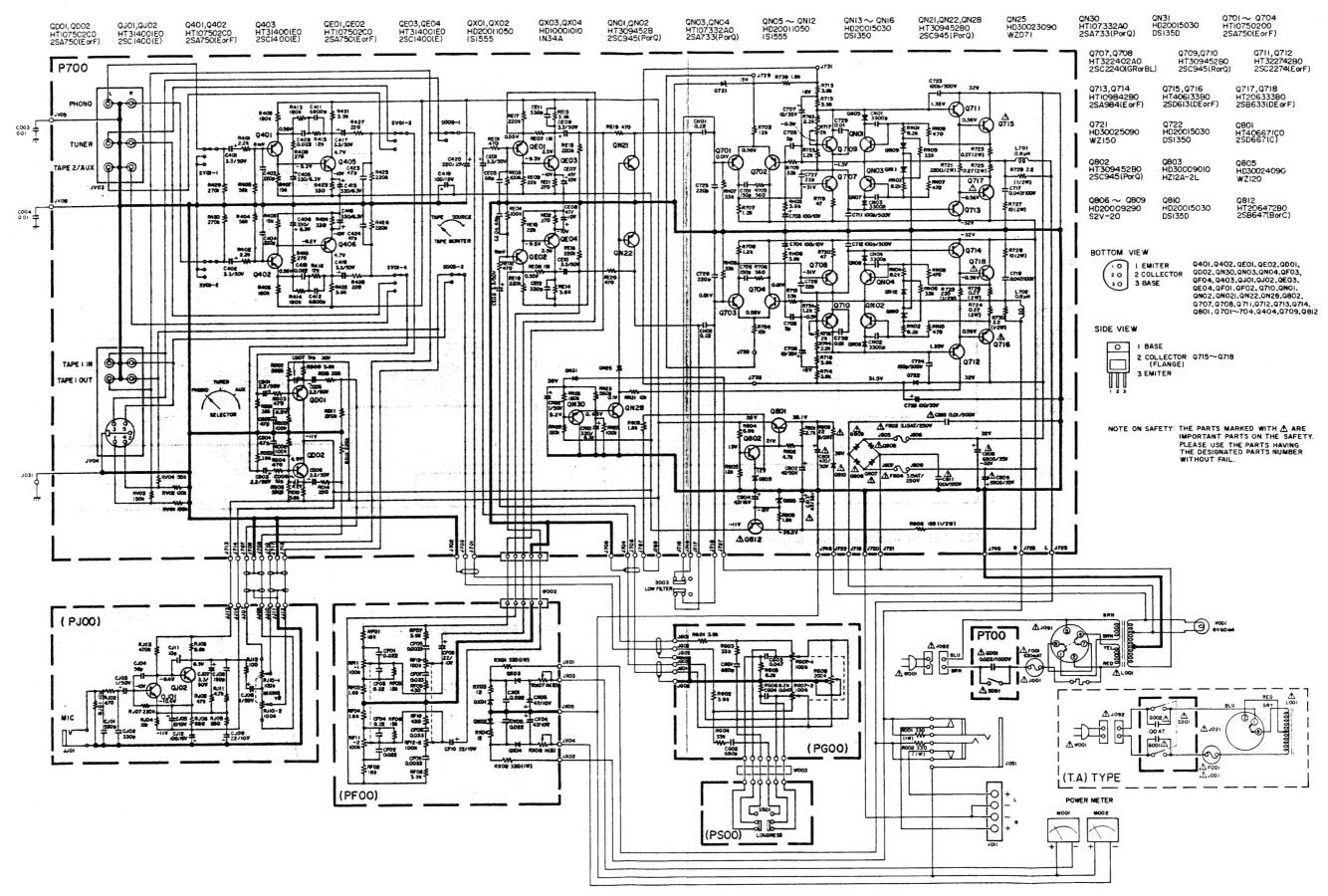
8. VOLTAGE CONVERSION

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.
PLEASE DO NOT DISASSEMBLE THE VOLTAGE SELECTOR ABSOLUTELY.

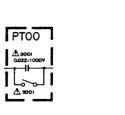


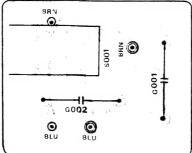
Note on safety: The parts marked with \triangle are important parts on the safety. Please use the parts having the designated parts number without fail.



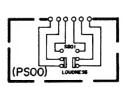
10. DIAGRAM AND COMPONENT LOCATIONS

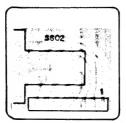
10.2 Microphone Amp. Assembly (PJ00) Schematic Diagram and Component Locations



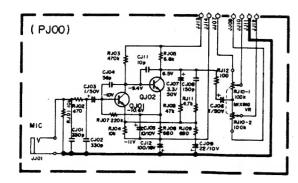


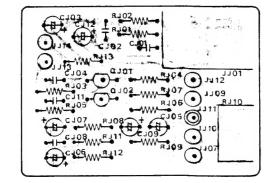
10.3 Loudness Assembly (PS00) Schematic Diagram and Component Locations



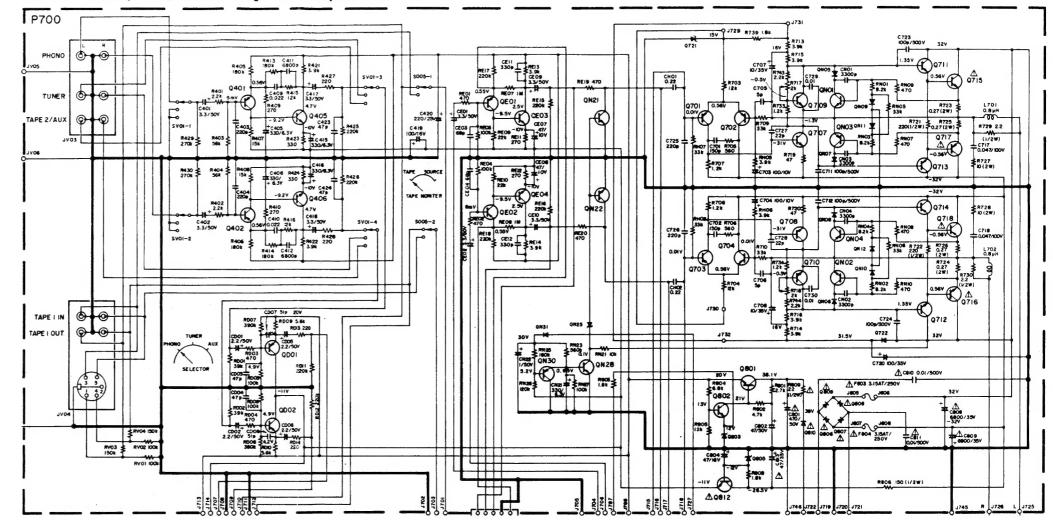


10.4 Switch Assembly (PT00) Schematic Diagram and Component Locations

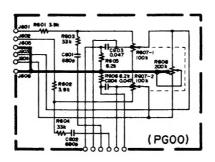


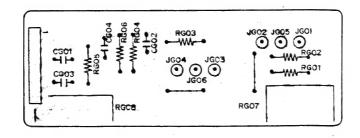


10.1 Main Assembly (P700) Schematic Diagram and Component Locations

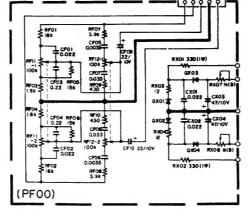


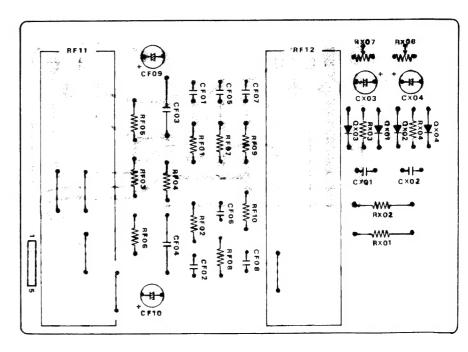
10.5 Volume Assembly (PG00) Schematic Diagram and Component Locations

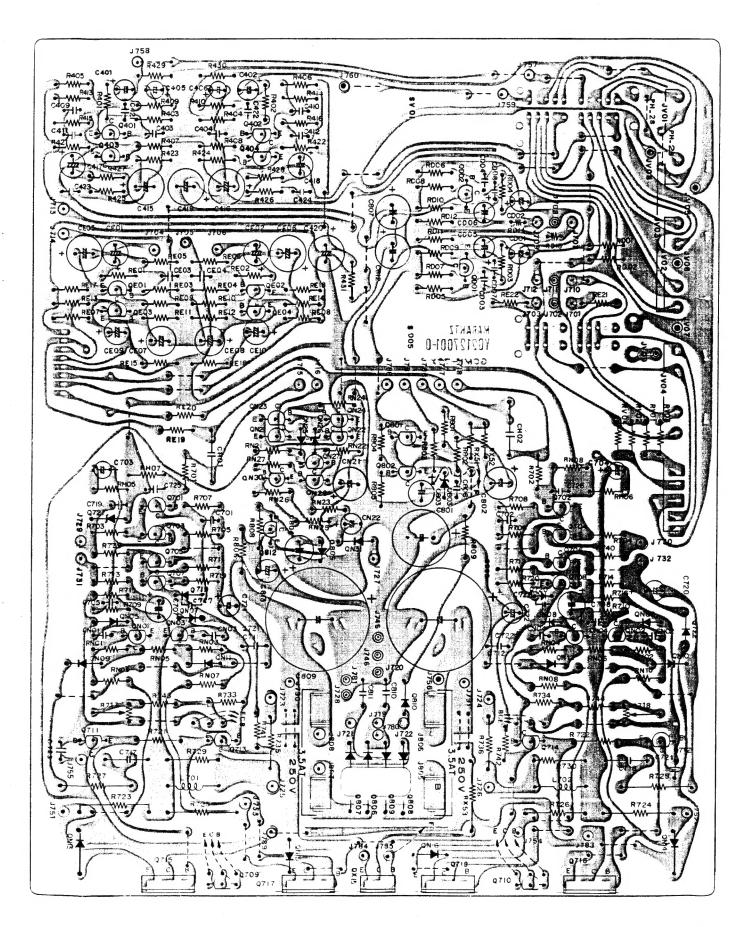




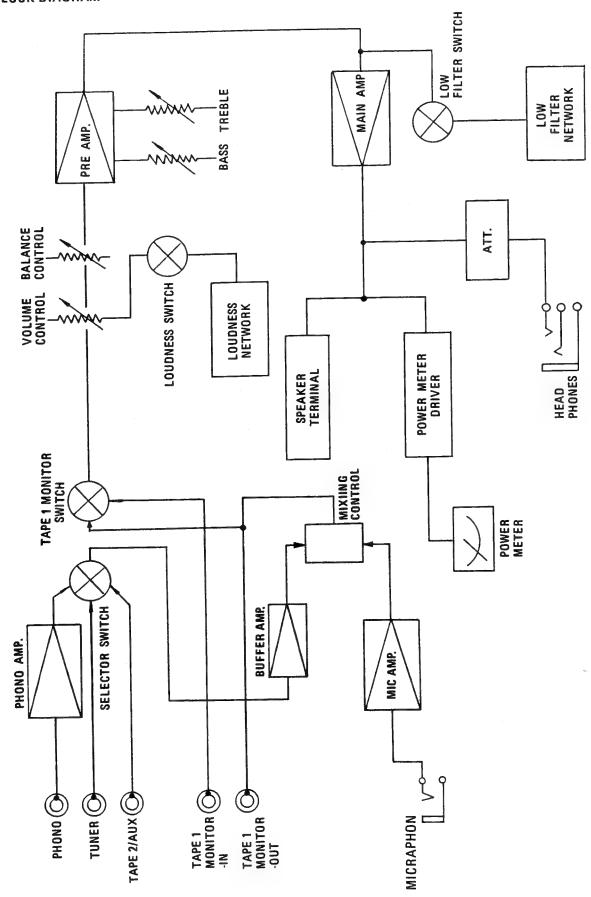
10.6 Tone Assembly (PF00) Schematic Diagram and Component Locations





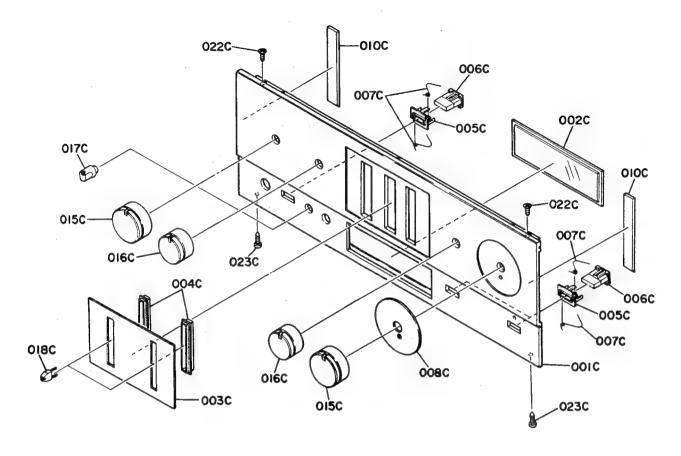


11. BLOCK DIAGRAM



12. EXPLOCED VIEW AND PARTS LIST

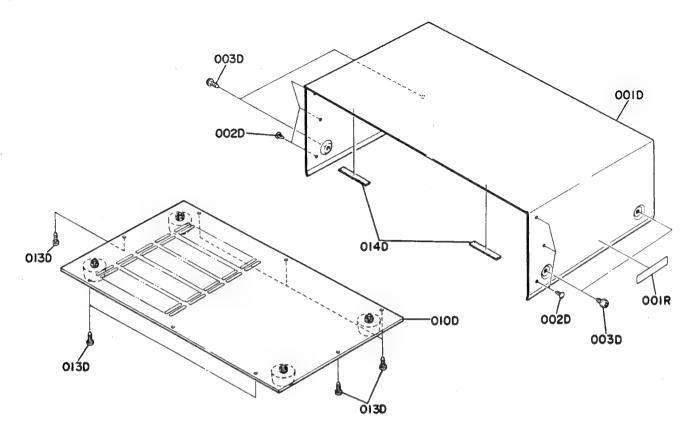
[C01-99] Front Panel



REF.	Q'TY	PART NO.	DESCRIPTION
DESIG.	N		
A 001C 002C 003C 004C 005C 008C 010C	1 1 1 2 3 1 2	2126063400 2126063012 2129158020 2126063020 2129259023 2127259010 2129063030 2128118010	Front Panel Assembly Escutcheon Window Escutcheon Bushing Bushing Escutcheon Spacer

REF. DESIG.	QTY N	PART NO.	DESCRIPTION		
006C 007C 015C 016C 017C 018C 022C 023C	36221222	2127154010 2127115010 2129154010 2129154020 4276154010 2129154040 51340308A0 51280308B0	Knob Spring Knob Knob Knob Knob Knob F.H. Tapped Screw B.H. Tapped Screw	F3 × 8 B3 × 8	

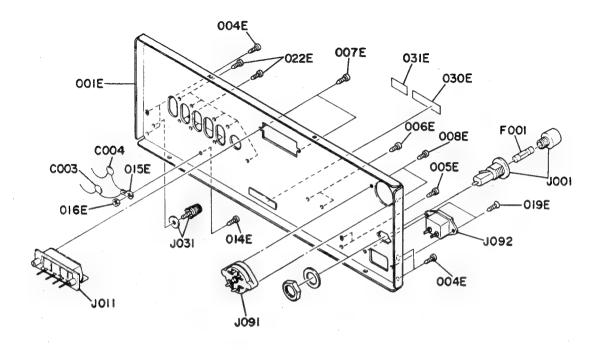
[C02-99] Top Cover



REF. DESIG.	QTY	PART NO.	DESCRIPTION	
DESIG.	N			
001D 002D 003D	1 6 4	2128257012 2991259010 51260408U0	Lid, Top Cover Bushing F. Washer Screw F4 x 8	
			·	

REF. DESIG.	Q'TY N	PART NO.	DESCRIPTION
010D 013D 014D	1 7 2	2128257500 51280410U0 2965118010	Lid, Bottom Cover Assembly B.H. Tapped Screw B4 x 10 Spacer
001R	1	2932861012	Label
:			

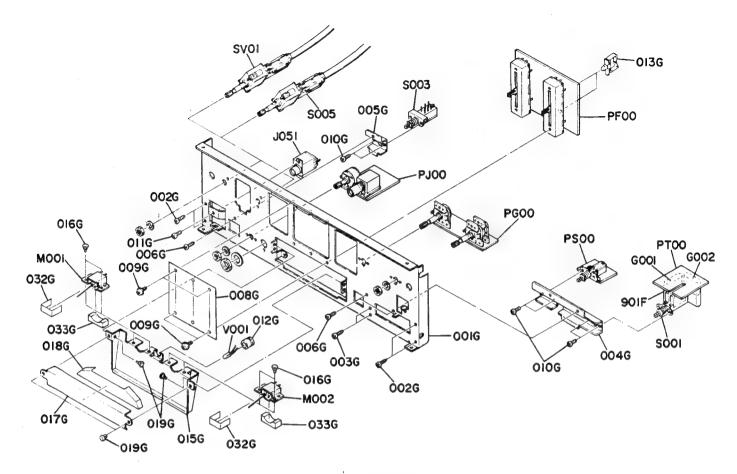
[C03-99] Rear Panel



REF. Q'T	ΓY	PART NO.	DESCRIPTION	
DESIG. N	V	TAILT NO.		
001E 1 004E 4 005E 2 006E 2 007E 2 008E 2 014E 1 015E 1	2 2 2 1 1	2126160212 51280308U0 51280308U0 51280308U0 51280308U0 51280310U0 5110030659 62030049W0 53110303A9	Bracket, Rear Panel B.H. Tapped Screw B3 x 8 B.H. Tapped Screw B3 x 10 B.H.M. Screw B3 x 6 Lug Hexagon Nut	
019E 2	2	51420308T0	O.C.H. Tapped Screw 3 x 8	
022E 8 030E 1 031E 1	1	51280308U0 2112265010 4581861010	B.H. Tapped Screw B3 x 8 Indicator Label	

REF.	Q'TY	PART NO.	DESCRIPTION
DESIG.	N		
REF. DESIG. C003 C004	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PART NO. DK18103310 DK18103310 FS10063800 YJ08000290 YT03040170 YL03010240 BY05060012 YP04000590	Ceramic Cap. $0.01\mu\text{F} + 80\% - 20\%$ Ceramic Cap. $0.01\mu\text{F} + 80\% - 20\%$ Fuse 630mAT Jack, Fuse Holder Terminal, Speaker Terminal, Ground Voltage Selector (110/220) Plug, A.C. Inlet

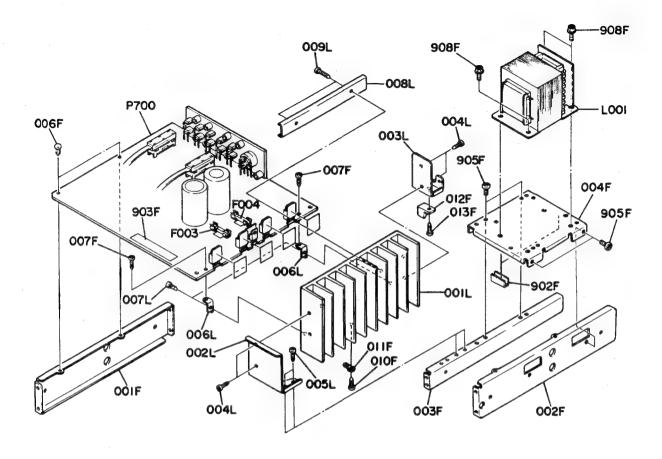
[P01-99] Front Chassis and General Parts



REF.	QTY	PART NO.	DESCRIPTI	ON		
DESIG.	N	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	1					
00 1G	1	2129160015	Bracket, Front Chas			
002G	4	51280308B0	B.H. Tapped Screw	B3 x 8		
003G	2	51280308B0	B.H. Tapped Screw	B3 x 8		
004G	1	2129160023	Bracket			
005G	1	2129160032	Bracket			
006G	3	51280308B0	B.H. Tapped Screw	B3 × 8		
008G	1	2129303022	Mask			
009G	4	5148030659	F. Washer Screw	F3 x 6		
010G	6	51100306A9	B.H.M. Screw	B3 x 6		
			,			
011G	1	51100306A9	B.H.M. Screw	B3 x 6		
012G	1	2417259010	Bushing			
013G	2	2129005010	Clamper			
015G	1	2126302014	Dial			
016G	4	2276005050	Clamper			
017G	1	2128303010	Mask			
018G	1	2128274013	Reflector			
019G	4	2912259020	Bushing			
032G	2	2112053010	Cover			
033G	2	2112053030	Cover			
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REF.	QTY	PART NO.	DESCRIPTION	
DESIG.	N			
DESIG.	1 1 1 1 1 1	SP02010440 IM11000020 IM11000020 IN10030500 SR04030250 YJ01001200 SP02010260 SR04020180	Push Switch, Power D.C. Meter D.C. Meter Lamp 60mA 8V Rotary Switch Jack, Headphone Push Switch, Low Filter Rotary Switch	
G001 G002	1 1	DF17223800 DF17223800	Film Cap. 0.022µF ±20% Film Cap. 0.022µF ±20%	
901F	2	2219120010	Insulator	

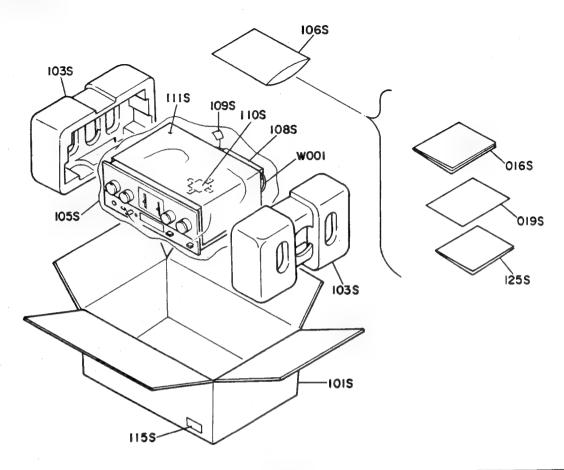
[P02-99] Main P.W. Board and General Parts



	TY PART NO. DESCRIPTION	DESCRIPTION		
N	7211110	Deserti 11	<u> </u>	
1	2258126010	Stay, (L)		
	2258126024	Stay, (R)		
	2258126035	Stay, Center		
	2127160013	Bracket		
2	2276005050	Clamper		
	51260308B0		. •	
		B.H. Tapped Screw	B3 × 6	
1	62030049W0	Lug		
	2887005012	Clamper		
1	51280308B0	B.H. Tapped Screw	B3 x 8	
2 1 4 4 4	2218259020 2205861010 51280408B0 52040410A0			
	1 1 1 2 2 1 1 1 1 2 1 4	N 2258126010 1 2258126024 1 2258126035 1 2127160013 2 2276005050 2 5126030880 1 5128030680 1 62030049W0 1 2887005012 1 5128030880 2 2218259020 1 2205861010 4 5128040880	1 2258126010 Stay, (L) 1 2258126024 Stay, (R) 1 2258126035 Stay, Center 1 2127160013 Bracket 2 2276005050 Clamper 2 5126030880 B.H. Tapped Screw 1 5128030680 B.H. Tapped Screw 1 2887005012 Clamper 1 5128030880 B.H. Tapped Screw 2 2218259020 B.H. Tapped Screw 2 2218259020 Bushing 1 2205861010 Label 4 5128040880 B.H. Tapped Screw	1 2258126010 Stay, (L) 1 2258126024 Stay, (R) 1 2258126035 Stay, Center 1 2127160013 Bracket 2 2276005050 Clamper 2 5126030880 B.H. Tapped Screw B3 x 6 1 62030049W0 Lug 1 2887005012 Clamper 1 5128030880 B.H. Tapped Screw B3 x 8 2 2218259020 Bushing 1 2205861010 Label 4 5128040880 B.H. Tapped Screw B4 x 8

REF. DESIG.	QTY	PART NO.	DESCRIPTI	ON
DESIG.	N			
				,
001L	1	2126267010	Heatsink	
002L	1	2127160020	Bracket	
003L	1	2258160050	Bracket	
004L	4	5128030880	B.H. Tapped Screw	B3 × 8
005L	2	51280308B0	B.H. Tapped Screw	B3 x 8
006L	2	2231160040	Bracket	
007L	2	5128030880	B.H. Tapped Screw	B3 x 8
008F	1	2258005013	Clamper	
009L	2	51280314B0	B.H. Tapped Screw	B3 x 14
∆ L001	1	TS16620010	Power Transformer	
P700	1	YG21270010	P.W. Board, Main	
. , , , ,	l i l	ZZ21268010	P.W. Board Assembly	
	'	2221200010	r.ev. board Assembly	
∆ F003	1 1	FS10315800	Fuse 3.15AT	
∆ F004	l i l	FS10315800	Fuse 3.15AT	
2. 00 1	'	1010013000	1 436 3,13/1	
			•	

[H01-99] Packing Materials



	QTY	PART NO.	DESCRIPTION
DESIG.	N		
016S 019S 101S 103S 105S 106S	1 1 1 2 1 1	2127861310 2126851030 2126801012 4214809014 9014335330 9013025010	Instructions Instructions Packing Case Cushion Polyethy Bag Polyethy Bag

REF. DESIG.	Q'TY N	PART NO.	DESCRIPTION
JE313.	N		
1085	1	2864804010	Sleeve
1095	1	9560000043	Hang Tag
110S	1 1	2731821012	Silicage
1115	i	2918107160	Sheet
1158	3	9526019060	Serial NO. Card
1258	1 1	2126856010	Circuit Diagram
∆ W001	1	ZC01805020	A.C. Power Cord
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13. ELECTRICAL PARTS LIST

REF. DESIG.	Q'TY N	PART NO.	DESCRIPTION	ı	REF. DESIG.	Q'TY N	PART NO.		DESCRIP	TION	
	14					- ' " -					
			P700-MAIN CIRCUIT E	BOARD	C701	1	DD15151370	Ceramic	150pF	±5%	
P700	1	YG21270010	P.W. Board, Main		C702	1	DD15151370	Ceramic	•	±5%	
]	1	ZZ21268010	P.W. Board Assembly		C703	1	EA10701030	Elect	100µF		10V
1					C704	1	EA10701030	Elect	100μF		10V
1			P700-CAPACITORS		C705	1	DD11050370	Ceramic	5pF	±0.5pF	:
CD01	1	EA22505090	Elect 2.2µF	50V	C706	1	DD11050370	Ceramic	5pF	±0.5pF	:
CD02	1	EA22505090	Elect 2.2µF	50V	C707	1	EA10605030	Elect	10μF		50V
CD03	1	DD15470370	Ceramic 47pF ±59		C708	1	EA10605030	Elect	10μF		50V
CD04	1	DD15470370	Ceramic 47pF ±59	-	C711	1	DK16101500	Ceramic	100pF	±10%	
CD05	1	EE22505040	Elect 2.2µF	50V	C712	1	DK16101500	Ceramic	100pF	±10%	
CD06	1	EE22505040	Elect 2.2µF	50V		١.					
CD07	1	DD15510310	Ceramic 51pF ±59		C717	1	DF16473540	Film	0.047µF	±10%	
CD08	1	DD15510310	Ceramic 51pF ±59	76	C718	1	DF16473540	Film	0.047µF	±10%	251
CE01	1	EA33505030	Elect 3.3μF	50V	∆ C720 C723	1	EA10703590 DK16101500	Elect Ceramic	100µF 100pF		35V
CE02	1	EA33505030	Elect 3.3µF	50V	C724	1	DK16101500	Ceramic	100pF		
CE03	1	DD15680370	Ceramic 68pF ±59		C725	l i	DK16221300	Ceramic	220pF	±10%	
CE04	1	DD15680370	Ceramic 68pF ±59		C726	i	DK16221300	Ceramic	220pF	±10%	
CE07	1 1	EA47601030	Elect 47µF	10V	C727	l i	DK15220370	Ceramic	22pF	±5%	
CE08	l i	EA47601030	Elect 47µF	107	C728	l i	DK15220370	Ceramic	22pF	±5%	
CE09	1	EA33505030	Elect 3.3µF	50V	C729	1	DK17103300	Ceramic	0.01µF	±20%	
CE10	i	EA33505030	Elect 3.3µF	50V	C730	1	DK17103300	Ceramic	0.01µF	±20%	
CE11	1	DD15331370	Ceramic 330pF ±59		C801	1	EA47705090	Elect	470µF		50V
CE12	1	DD15331370	Ceramic 330pF ±59						•		
	ļ .				C802	1	EA47605090	Elect	47µF		50V
CH01	1	DF17224050	Film 0.22µF ±20	0%	C804	1	EA47601630	Elect	47µF		16V
CH02	1	DF17224050	Film 0.22µF ±20	0%	C806	1	DK16102300	Ceramic	1000pF	±10%	
CN01	1	DF17332350	Film 3300pF ±20	0%	₹ C808	1	E868803520	Elect	6800µF		35V
CN02	1	DF17332350	Film 3300pF ±20		∆ C809	1	EB68803520	Elect	6800µF		35V
CN03	1	DF17332350	Film 3300pF ±20		∆ C810	1	DK18103510	Ceramic	0.01µF		
CN04	1	DF17332350	Film 3300pF ±20		∆ C811	1	DK18103510	Ceramic	0.01 _# F		
CN21	1	EA33700690	Elect 330µF	6.3V	C813	1	EA47603590	Elect	47µF		35V
CN22	1	EA10505030	Elect 1µF	50∨				8700 DE	CICTODO		
6464		E 4 00505000	Floor	5014				_	SISTORS stors are ±	E94 amal 1	CIMI
C401 C402	1	EA33505030 EA33505030	Elect 3.3µF Elect 3.3µF	50V 50V	RD01	1	GD05393140	39K		376 aniq 7	4447
C403	1	DD15221370	Ceramic 220pF ±59		RD02	i	GD05393140	39K			
C404	1	DD15221370	Ceramic 220pF ±59		RD03	l i i	GD05471140	470			
C405	i	EA33700690	Elect 330µF	6.3V	RD04	1	GD05471140	470			
C406	1	EA33700690	Elect 330µF	6.3V	RD05	1	GD05104140	100K			
C409	1	DF15223350	Film 0.022µF ±59		RD06	1	GD05104140	100K	Ω		
C410	1	DF15223350	Film 0.022µF ±59	6	RD07	1	GD05394140	390K	Ω		
C411	1	DF15682350	Film 6800pF ±59	6	RD08	1	GD05394140	390K	Ω		
C412	1	DF15682350	Film 6800pF ±59	6	RD09	1	GD05562140	5.6K			
					RD10	1	GD05562140	5.6K	D.		
C415	1	EA33700690	Elect 330µF	6.3V							
C416	1	EA33700690	Elect 330µF	6.3V	RD11	1	GD05224140	220Ks			
C417	1	EA33505030	Elect 3.3µF	50V	RD12	1 1	GD05224140	220Ks			
C418	1	EA33505030	Elect 3.3µF	50V	RD13		GD05221140	2201			
C419	1	EA10701630	Elect 100µF	16V	RD14 RE01	1 1	GD05221140	2200			
C420	1	EA22702530	Elect 220µF	25V	RE02	;	GD05471140 GD05471140	470s			
C423	1	DD15470370	Ceramic 47pF ±59		RE03	1	GD05471140 GD05104140	100K			
C424	1	DD15470370	Ceramic 47pF ±59	6	RE04	i	GD05104140	100K			
					RE07	i	GD05105140	100K1			
					RE08	l i l	GD05105140	1Ms			
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REF. DESIG.	Q'TY N	PART NO.	DESCRIPTION
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RE09	1	GD05223140	22ΚΩ
RE10	i	GD05223140	22ΚΩ
RE11	1	GD05221140	220Ω
RE12	i	GD05221140	220Ω
RE13	1	GD05392140	3.9KΩ
RE14	li	GD05392140	3.9ΚΩ
RE15	l i	GD05224140	220KΩ
RE16	li	GD05224140	220ΚΩ
RE17	1	GD05224140	220KΩ
RE18	1	GD05224140	220KΩ
RE19	1	GD05471140	470Ω
RE20	1	GD05471140	470Ω
RH05	1	GD05392140	3.9ΚΩ
RH06	1	GD05392140	3.9KΩ
RH07	1	GD05333140	33KΩ
RH08	i	GD05333140	33KΩ
DNO1		GD05822140	8.2ΚΩ
RN01	1	GD05822140	8.2ΚΩ
RN02 RN03	1	GD05822140	8.2KΩ
	1	GD05822140	8.2ΚΩ
RN04	1 1	GD05822140	33KΩ
RN05	1	GD05333140	33ΚΩ
RN06	1	GG05471140	470Ω
RN07	1	GG05471140	470Ω
RN08 RN09	1	GG05471140	470Ω
RN10	i	GG05471140	470Ω
DNIGA	1	GD05103140	10ΚΩ
RN21	li	GD05564140	560ΚΩ
RN23	1	GD05384140	180ΚΩ
RN25		GD05124140	120ΚΩ
RN26	1 !	GD05124140	100ΚΩ
RN27	1 !	GD05104140	100ΚΩ
RV01	1		100ΚΩ
RV02	1	GD05104140 GD05154140	150ΚΩ
RV03 RV04	1 1	GD05154140	150ΚΩ
	1.	CD05222140	2.2ΚΩ
R401	1 1	GD05222140	2.2ΚΩ
R402	1	GD05222140	56KΩ
R403	1	GD05563140	56ΚΩ
R404	1 1	GD05563140	
R405	1	GD05184140	
R406		GD05184140	
R407	1	GD05153140	12122
R408		GD05153140	
R409 R410		GD05271140 GD05271140	
R413		GD05184140	
R414		GD05184140	
R415	1 .	GD05123140	1
R416		GD05123140	
R421	1	GD05392140	
R422		GD05392140	
R423	1	GD05331140	330Ω
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REF.	Q'TY	PART NO.	DESCRIPTION
DESIG.	N		
R424	1	GD05331140	330Ω
R425	1	GD05224140	220ΚΩ
R426	1	GD05224140	220KΩ 220Ω
R427 R428	1	GD05221140 GD05221140	220Ω
R429	i	GD05274140	270ΚΩ
R430	1	GD05274140	270ΚΩ
R703	1	GD05123140	12ΚΩ
R704	1	GD05123140 GD05561140	12KΩ 560Ω
R705		GD05561140	560Ω
R707	l i	GD05122140	1.2ΚΩ
R708	1	GD05122140	1.2ΚΩ
R709	1	GD05333140	33ΚΩ
R710	١.,	GD05333140	33KΩ
R713	1	GG05392140	3.9ΚΩ
R714	i	GG05392140	3.9ΚΩ
R715	1	GG05392140	3.9KΩ
R716	1	GG05392140	3.9K Ω 2K Ω (B) Trimming
R717	1	RA02020180 RA02020180	2KΩ (B) Trimming
R719	li	GG05470140	47Ω
R720	1	GG05470140	47Ω
R721	1	GG05221120	220Ω
0.700		CC05001100	220Ω
R722	1	GG05221120 GB05272020	0.27Ω 2W
R724	l i	GB05272020	0.27Ω 2W
R725	1	GB05272020	0.27Ω 2W
R726	1	GB05272020	0.27Ω 2W 10Ω 2W
R727	1	GA05100020 GA05100020	10Ω 2W
R728	1 ;	RC10022120	2.2Ω ±10% ½W
R730	i	RC10022120	2.2Ω ±10% ½W
R733	1	GD05122140	1.2ΚΩ
D704	١.	GD05122140	1.2ΚΩ
R734	1	GG05182140	1.8ΚΩ
R743	li	GD05222140	2.2ΚΩ
R744	1	GD05222140	2.2ΚΩ
R801	1	GG05272140	2.7KΩ 4.7KΩ
R802	1 1	GG05472140 GG05182140	1.8ΚΩ
R804	1	GD05682140	1
R805	1	GD05123140	12ΚΩ
R806	1	RF05151140	
R808	1 1	GG05182120 RF05220120	10110
R809	1	HF05220120	2232 /200
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REF. DESIG.	Q'TY N	PART NO.	DES	CRIPTION
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				ONDUCTORS
QD01	1	HT107502C0	Transistor	2SA750(E or F)
QD02	1	HT107502C0 HT107502C0	Transistor Transistor	2SA750(E or F) 2SA750(E or F)
QE01 QE02	1	HT107502C0	Transistor	2SA750(E or F)
QE02	1	HT314001E0	Transistor	2SC1400(E)
QE04	1	HT314001E0	Transistor	2SC1400(E)
QN01	1	HT309452B0	Transistor	2SC945(P or Q)
QN02	1	HT309452B0	Transistor	2SC945(P or Q)
QN03	1	HT107332A0	Transistor	2SA733(P or Q)
QN04	1	HT107332A0	Transistor	2SA733(P or Q)
ONICE	١.	UD20011050	Diode	1S1555
QN05 QN06	1	HD20011050 HD20011050	Diode	1S1555 1S1555
QN07	1	HD20011050	Diode	181555
QN08	1	HD20011050	Diode	1\$1555
QN09	1	HD20011050	Diode	151555
QN10	i	HD20011050	Diode	1S1555
QN11	1	HD20011050	Diode	1S1555
QN12	1	HD20011050	Diode	1S1555
QN13	1	HD20015030	Diode	DS135D
QN14	1	HD20015030	Diode	DS135D
		11000045005	Di- 4-	D013ED
QN15	1	HD20015030	Diode	DS135D DS135D
QN16	1	HD20015030	Diode Transistor	2SC945(P or Q)
QN21 QN22	1 1	HT309452B0 HT309452B0	Transistor Transistor	2SC945(P or Q)
QN25	1	HD30023090	Zener	WZ071
QN28	1	HT309452B0	Transistor	2SC945(P or Q)
QN30	1	HT107332A0	Transistor	2SA733(P or Q)
QN31	1	HD20015030	Diode	DS135D
Q401	1	HT107502C0	Transistor	2SA750(E or S)
Q402	1	HT107502C0	Transistor	2SA750(E or S)
Q403	1	HT314001E0	Transistor	2SC1400(E)
Q404	1	HT314001E0	Transistor	2SC1400(E)
Q701	1	HT107502C0	Transistor	2SA750(E or F)
Q702	1	HT107502C0	Transistor	2SA750(E or F)
0703	l i	HT107502C0	Transistor	2SA750(E or F)
Q704	1	HT107502C0	Transistor	2SA750(E or F)
Q707	1	HT322402A0	Transistor	2SC2240(GR or BL)
Q708	1	HT322402A0	Transistor	2SC2240(GR or BL)
Q709	1	HT309452B0	Transistor	2SC945(P or Q)
Q710	1	HT309452B0	Transistor	2SC945(P or Q)
Q721	1	HD30025090	Zener	WZ155 DS135D
Q722	1	HD20015030	Diode	D9 132D
Q711	1	HT322742B0	Transistor	2SC2274(E or F)
Q712	1	HT322742B0	Transistor	2SC2274(E or F)
Q713	1	HT109842B0	Transistor	2SA984(E or F)
Q714	1	HT109842B0	Transistor	2SA984(E or F)
∆Q715	1	HT406133B0	Transistor	2SD613(D,E or F)
∆Q716	1	HT406133B0	Transistor	2SD613(D,E or F)
∆ Q717	1	HT206333B0	Transistor	2SB633(D,E or F)
 ∆ Q718	1	HT206333B0	Transistor	2SB633(D,E or F)
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REF.	QTY		
DESIG.	N	PART NO.	DESCRIPTION
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Q801	1	HT406671C0	Transistor 2SD667(C)
Q802	1	HT309452B0	Transistor 2SC945(P or Q)
Q803	1	HD30009010	Zener HZ12A-2L
Q805	1	HD30024090	Zener WZ120
₩ 0806	1	HD20009290	Diode S2V-20
∆ Q807	1	HD20009290	Diode S2V-20
₹ 0808	1	HD20009290	Diode S2V-20 Diode S2V-20
∆ Q809 Q810	1 1	HD20009290 HD20015030	Diode S2V-20 Diode DS135D
Q812		HT206472B0	Transistor 2SB647(B or C)
4012	'	11120047250	200017(0 0)
			P700-MISCELLANEOUS
JV03	1	YT02060140	Terminal
JV04	1	YT02050010	Terminal
J805	1	YJ08000270	Jack, Fuse Holder
J806	1	YJ08000270	Jack, Fuse Holder
J807	1	YJ08000270	Jack, Fuse Holder
J808	1	YJ08000270	Jack, Fuse Holder
. 204			01-1-0-11
L701	1	LL23915120	Choke Coil
L702	1	LL23915120	Choke Coil
S005	1	SR04020180	Rotary Switch
3005	'	3004020100	Hotary Switch
SV01	1	SR04030250	Rotary Switch
0.0.	'	0110-1000200	riotally switch
	1	•	PF00-TONE AMP.
			CIRCUIT BOARD
PF00	1	YK21261510	P.W. Board, Tone Amp.
	1	ZZ21268510	P.W. Board Assembly
			PF00-CAPACITORS
CF01	1	DF16223350	Film 0.022µF ±10%
CF02	1	DF16223350	Film 0.022µF ±10%
CF03	1	DF16224350	Film 0.22µF ±10%
CF04	1	DF16224350	Film 0.22µF ±10%
CF05	1	DF16332350	Film 0.0033µF ±10%
CF06	1	DF16332350	Film 0.0033µF ±10% Film 0.033µF ±10%
CF07 CF08	1	DF16333350 DF16333350	Film 0.033µF ±10% Film 0.033µF ±10%
CF09	i	EA22601090	Elect 22µF 10V
CF10	1	EA22601090	Elect 22µF 10V
0,00	'	LA22001030	22μ1 100
CX01	1	DK18223320	Ceramic 0.022µF
CX02	l i	DK18223320	Ceramic 0.022µF
CX03	1	EA47601030	Elect 47μF 10V
CX04	1	EA47601030	Elect 47μF 10V
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REF.	Q'TY	PART NO.	DESCRIPTION
DESIG.	N	rani ito.	
RF01 RF02 RF03 RF04 RF05 RF06 RF07 RF08 RF10 RF11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GD05183140 GD05183140 GD05152140 GD05152140 GD05153140 GD05153140 GD05392140 GD05471140 GD05471140 RS01040140	PF00-RESISTORS (All Resistors are ±5% and ½W) 18ΚΩ 18ΚΩ 1.5ΚΩ 1.5ΚΩ 15ΚΩ 15ΚΩ 3.9ΚΩ 3.9ΚΩ 470Ω 470Ω 100ΚΩ (C) x 2 Variable
RF12 RX01 RX02 RX03 RX04 RX07 RX08	1 1 1 1 1 1	RS01040140 GA05331010 GA05331010 GD05120140 GD05120140 RA01020300 RA01020300	100ΚΩ (C) x 2 Variable 330Ω 1W 330Ω 1W 12Ω 12Ω 1ΚΩ (B) Trimming 1ΚΩ (B) Trimming
QX01 QX02 QX03 QX04	1 1 1 1	HD20011050 HD20011050 HD10001010 HD10001010	PF00-DIODE Diode 1S1555 Diode 1S1555 Diode 1N34A Diode 1N34A
PG00	1 1	YK21261520 ZZ21268520	PG00-VOLUME CONTROL CIRCUIT BOARD P.W. Board, Volume Control P.W. Board Assembly
CG01 CG02 CG03 CG04	1 1 1 1	DK16681300 DK16681300 DF16473300 DF16473300	PG00-CAPACITORS Ceramic 680pF ±10% Ceramic 680pF ±10% Film 0.047μF ±10% Film 0.047μF ±10%
RG01 RG02 RG03 RG04 RG05 RG06 RG07	1 1 1 1 1 1 1	GD05392140 GD05392140 GD05333140 GD05333140 GD05822140 GD05822140 RM01040270 RM02040080	PG00-RESISTORS (All Resistors are ±5% and %W) 3.9KΩ 3.9KΩ 33KΩ 33KΩ 8.2KΩ 8.2KΩ 100KΩ (B) Variable 200KΩ (B) Variable
PJ00	1 1	YK21261540 ZZ21268540	P.00-MIC AMP. CIRCUIT BOARD P.W. Board, Mic Amp. P.W. Board Assembly
CJ01 CJ02 CJ03 CJ04 CJ05 CJ06 CJ07 CJ08 CJ09 CJ11 CJ12	1 1 1 1 1	DD15331370 DD15331370 EA10505090 DD15560370 EA10601630 EA33505030 DD15151370 EA22601690 DD11100370 EA10701630	Ceramic 56pF ±5% Elect 10µF 16V Elect 3.3µF 50V Elect 3.3µF 50V Ceramic 150pF ±5% Elect 22µF 16V Ceramic 10pF ±0.5pF

RJ01	REF.	QTY	PART NO.	DESCRIPTION
RJ01	DESIG.	N	1 4111 110:	
RJ01				
RJ01		1		B IOO DECISTORS
RJ01 1 GD05103140				
RJ02 1 GD05471140 470Ω RJ03 1 GD05474140 470KΩ RJ04 1 GD05103140 10KΩ RJ05 1 GD05682140 6.8KΩ RJ06 1 GD05561140 560Ω RJ07 1 GD05224140 47KΩ RJ08 1 GD05473140 47KΩ RJ09 1 GD05681140 680KΩ RJ10 1 RM01040280 100KΩ (B) x 2 Variable RJ11 1 GD05472140 4.7KΩ RJ12 1 GD05101140 100Ω RJ13 1 75061001P0 Jumper QJ01 1 HT314001E0 Transistor 2SC1400(E) JJ01 1 YJ01001340 PS00-LOUDNESS CIRCUIT BOARD PS00 1 YK21261530 P.W. Board, Loudness P.W. Board Assembly PS00-LOUDNESS CIRCUIT BOARD PW. Board Assembly PS00-WITCHES Push Switch, Loudness PW. Board Assembly PT00 1 YK21261550 P.W. Board Assembly PT00 1 YK21261550 P.W. Board Assembly PT00 1 YK21261550 P.W. Board Assembly PT00-POWER SWITCH CIRCUIT BOARD PW. Board Assembly PT00-POWER SWITCH PW. Board Assembly PW	D 101	1	GD05103140	
RJ03 1 GD05474140 RJ04 1 GD05103140 RJ05 1 GD05682140 RJ06 1 GD05561140 RJ07 1 GD05224140 RJ08 1 GD05473140 RJ09 1 GD05681140 RJ10 1 RM01040280 RJ11 1 GD05472140 RJ11 1 GD05472140 RJ13 1 75061001P0 QJ01 1 HT314001E0 QJ02 1 HT314001E0 Transistor 2SC1400(E) JJ01 1 YJ01001340 PS00 1 YK21261530 TS00-SWITCHES PW. Board Assembly PT00 1 YK21261550 PT00-POWER SWITCH CIRCUIT BOARD PT0 1 YK21261550 PT0-POWER SWITCH CIRCUIT BOARD PT0 1 TY223800 AG001 1 DF17223800 Film Cap. 0.022μF ±20%				
RIO4		1 1		
RJ05 1 GD05682140 6.8KΩ RJ06 1 GD05561140 560Ω RJ07 1 GD05224140 220KΩ RJ08 1 GD05473140 47KΩ RJ08 1 GD05681140 680KΩ RJ10 1 RM01040280 100KΩ (B) x 2 Variable RJ11 1 GD05472140 4.7KΩ RJ12 1 GD05101140 100Ω RJ13 1 75061001P0 Jumper QJ01 1 HT314001E0 Transistor 2SC1400(E) Transistor 2SC1400(E) JJ01 1 YJ01001340 PJ00-JACK Jack, Mic PS00 1 YK21261530 PS00-LOUDNESS CIRCUIT BOARD P.W. Board, Loudness P.W. Board Assembly PS00-SWITCHES Push Switch, Loudness PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch PT00 1 YK21261550 TRCUIT BOARD PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Board Assembly PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Board Assembly PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Board Assembly PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W				
RJ06				
RJ07 1 GD05224140 220KΩ A7KΩ BJ08 1 GD05473140 680KΩ BJ09 1 GD05473140 680KΩ BJ10 1 RM01040280 100KΩ (B) x 2 Variable 4.7KΩ BJ12 1 GD05472140 4.7KΩ 100Ω Jumper PJ00-SEMICONDUCTORS Transistor 2SC1400(E) Transistor 2SC1400(E) Transistor 2SC1400(E) Transistor 2SC1400(E) PJ00-JACK Jack, Mic PS00 1 YK21261530 P.W. Board, Loudness P.W. Board Assembly PS00-SWITCHES Push Switch, Loudness P.W. Board Assembly PT00 1 YK21261550 ZZ21268550 P.W. Board Assembly PT00 1 YK21261550 ZZ21268550 Film Cap. 0.022μF ±20%		1		-
RJ08		1 *		220KΩ
RJ10		1	GD05473140	47ΚΩ
RJ11		1	GD05681140	680KΩ
RJ12	RJ10	1	RM01040280	100KΩ (B) x 2 Variable
RJ13	RJ11	1	GD05472140	4.7ΚΩ
QJ01	RJ12		GD05101140	100Ω
QJ01 1 HT314001E0 Transistor 2SC1400(E) JJ01 1 YJ01001340 PJ00-JACK JJ01 1 YK21261530 PS00-LOUDNESS CIRCUIT BOARD PS00 1 YK21261530 P.W. Board, Loudness P.W. Board Assembly PS00-SWITCHES Push Switch, Loudness PT00 1 YK21261550 PUSH Switch, Loudness PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Board Assembly P.W. Board Assembly ΔG001 1 DF17223800 Film Cap. 0.022μF ±20% Film Cap. 0.022μF ±20% Film Cap. 0.022μF ±20% ΔS001 1 SP02010440 Puch Switch, Power	RJ13	1	75061001P0	Jumper *
QJ01 1 HT314001E0 Transistor 2SC1400(E) JJ01 1 YJ01001340 PJ00-JACK JJ01 1 YK21261530 PS00-LOUDNESS CIRCUIT BOARD PS00 1 YK21261530 P.W. Board, Loudness P.W. Board Assembly PS00-SWITCHES Push Switch, Loudness PT00 1 YK21261550 PUSH Switch, Loudness PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Board Assembly P.W. Board Assembly ΔG001 1 DF17223800 Film Cap. 0.022μF ±20% Film Cap. 0.022μF ±20% Film Cap. 0.022μF ±20% ΔS001 1 SP02010440 Puch Switch, Power				
Description				
PJ00-JACK PS00-LOUDNESS CIRCUIT BOARD PS00	QJ01	1 -		
PS00	QJ02	1	HT314001E0	Transistor 2SC1400(E)
PS00				
PS00 1 YK21261530 PS00-LOUDNESS CIRCUIT BOARD P.W. Board, Loudness P.W. Board Assembly PS00-SWITCHES Push Switch, Loudness PT00 1 YK21261550 Push Switch, Loudness PT00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch P.W. Board Assembly AG001 1 DF17223800 Film Cap. 0.022µF ±20% Film Cap. 0.022µF ±20% AS001 1 SP02010440 Puch Switch, Power		1 _		
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SS01 1 SP02010260 Push Switch, Loudness	1			PS00-SWITCHES
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(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

14. TECHNICAL SPECIFICATIONS

AUDIO SECTION

POWER OUT TOTAL HAR	PUT, DIN, 4 OHM, PER CHANNEL
POWER OUT TOTAL HAR I.M. DISTOR (250 Hz POWER BAN	PUT, DIN, 8 OHM, PER CHANNEL
DAMPING FA	ACTOR 8 OHM 70
Frequency Re Phono Aux Input Termina	(RIAA)
Phono:	Input Impedance
Aux:	Overload Margin
Phono Dynam Channel Balar	lent Input Noise
Aux Interchannel (3.0 dB 3.0 dB Crosstalk Hz 47 dB
Aux, 1 kH: Tape, 1 kH Intersource Ci	z
	415 mV
Output Imped Tape Out	ance, I KHZ
GENERAL	
Power Requir	ements
Idling Power	nption at Rated Output, both Channels Driven
Transistors	42 28
Panel Widt Panel Heig	ht
Unit Alone	Shipment 6.0 kg (13.2 lbs) 7.5 kg (16.5 lbs)